

CLAIM AMENDMENTS

1 1. (Original) A heating element for igniting a pyrotechnic
2 charge comprising
3 a base body, a structured strip shaped resistance layer on said
4 base body, and contact fields overlapping said resistance layer at
5 ends thereof for applying a current pulse to the heating element,
6 wherein the heating element has a mass of 1.0×10^{-9} kg to 4.0×10^{-9}
7 kg, a specific resistance of 1×10^{-6} Ω m to 2×10^{-6} Ω m and a specific
8 heat capacity of 100 W/(kg.K) to 400 W/(kg.K).

1 2. (Original) The heating element defined in claim 1
2 wherein the heating element has a cross sectional area of 3.5×10^{-10}
3 m^2 to 7.0×10^{-10} m^2 .

1 3. (Original) The heating element defined in claim 1
2 wherein the resistance layer is composed of a sintered Ag/Pd
3 resistance paste or a sintered Ag/Au/Pd resistance paste
4 containing 30 to 50 mass% Ag and 35 to 50 mass % Pd, or a sintered
5 Pt/W resistance paste containing 70 to 90 mass %% Pt and 5 to 20

6 mass% W.

1 4. (Original) The heating element defined in claim 1
2 wherein the base body is composed of a high-temperature-resistant
3 glass or glass-ceramic or ceramic with a thermal conductivity of
4 at most 2 W/(m•K).

1 5. (Original) The heating element defined in claim 1
2 wherein the base body is composed of a high-temperature-resistant
3 glass or glass-ceramic or ceramic with a thermal conductivity of
4 at most 3 W/(m•K) and a heat barrier is applied to said base body
5 which is comprised of a glass or glass-ceramic layer of a
6 thickness of 20 to 80 μm and a thermal conductivity of at most 1.5
7 W/(m•K).

1 6. (Original) The heating element defined in claim 1
2 wherein the contact fields are composed of sintered AgPd or AgPt
3 thick-layer conductor paste with Pd or Pt proportions between 1
4 and 10 mass%.

1 7. (Currently amended) A heating element for igniting a
2 pyrotechnic charge comprising a base body, a structured strip
3 shaped resistance layer on said base body, and contact fields
4 overlapping said resistance layer at ends thereof for applying a
5 current pulse to the heating element, wherein the heating element
6 has a mass of 1.0×10^{-9} kg to 4.0×10^{-9} kg, a specific resistance of
7 1×10^{-6} Ω m to 2×10^{-6} Ω m and a specific heat capacity of 100 W/(kg.K)
8 to 400 W/(kg.K). ~~The heating element defined in claim 1 wherein~~

9 the heating element ~~[[has]]~~ having a cross
10 sectional area of 3.5×10^{-10} m² to 7.0×10^{-10} m²,

11 the resistance layer ~~[[is]]~~ being composed of a
12 sintered Ag/Pd resistance paste or a sintered Ag/Au/Pd resistance
13 paste containing 30 to 50 mass% Ag and 35 to 50 mass % Pd, or a
14 sintered Pt/W resistance paste containing 70 to 90 mass %% Pt and
15 5 to 20 mass% W,

16 the base body is composed of a high-temperature-
17 resistant glass or glass-ceramic or ceramic with a thermal
18 conductivity of at most 2 W/(m.K), and the contact fields are
19 composed of sintered AgPd or AgPt thick-layer conductor paste
20 with Pd or Pt proportions between 1 and 10 mass%.

1 8. (Currently amended) A heating element for igniting a
2 pyrotechnic charge comprising
3 a base body, a structured strip shaped resistance layer
4 on said base body, and contact fields overlapping said resistance
5 layer at ends thereof for applying a current pulse to the heating
6 element, wherein the heating element has a mass of 1.0×10^{-9} kg to
7 4.0×10^{-9} kg, a specific resistance of $1 \times 10^{-6} \Omega\text{m}$ to $2 \times 10^{-6} \Omega\text{m}$ and a
8 specific heat capacity of 100 W/(kg.K) to 400 W/(kg.K), The
9 ~~heating element defined in claim 1 wherein~~

10 the heating element ~~[[has]]~~ having a cross
11 sectional area of $3.5 \times 10^{-10} \text{ m}^2$ to $7.0 \times 10^{-10} \text{ m}^2$,

12 the resistance layer ~~[[is]]~~ being composed of
13 a sintered Ag/Pd resistance paste or a sintered Ag/Au/Pd
14 resistance paste containing 30 to 50 mass% Ag and 35 to 50 mass %
15 Pd, or a sintered Pt/W resistance paste containing 70 to 90
16 mass % Pt and 5 to 20 mass% W,

17 the base body ~~[[is]]~~ being composed of a high-
18 temperature-resistant glass or glass-ceramic or ceramic with a
19 thermal conductivity of at most 3 W/(m.K) ~~[[and]]~~

20 a heat barrier ~~[[is]]~~ being applied to said
21 base body which is comprised of a glass or glass-ceramic layer of
22 a thickness of 20 to 80 μm and a thermal conductivity of at most
23 1.5 W/(m \cdot K), and
24 the contact fields ~~[[are]]~~ being composed of
25 sintered AgPd or AgPt thick-layer conductor paste with Pd or Pt
26 proportions between 1 and 10 mass%.

Claims 9 to 13 (cancelled).